

**"APPROVED FOR RELEASE: 07/16/2001**

**CIA-RDP86-00513R001755210007-3**

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**CIA-RDP86-00513R001755210007-3"**

DOBIS, Otto; MAGY, Ferenc; TELCS, Ivan

Modified Ulmann device for the determination of the molecular  
state of deluted solutions. Magy kem folyoir 65 no. 11: 448-451  
N '59.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete,  
Budapest.

NAGY, Ferenc, dr (Budapest XIV Hungaria korut 114); TELCS, Ivan (Budapest XIV Hungaria korut 114)

Investigation of the kinetics of the catalytic hydrogenation in the liquid phase. III. Influence of partial processes on the rate of the gas uptake. Acta chimica Hung 25 no.2:193-204 '60. (EEAI 10:4)

1. Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest.

(Catalysts)	(Hydrogenation)	(Liquids)
(Gases)	(Hydrogen)	(Diffusion) (Electrodes)

Distr: 4E3d

... of the ... in

3  
Can't see!

TELCS, Ivan; NAGY, Ferenc; NYITRAI, Istvan

Adsorption velocity of hydrogen dissolved in water observed on smoky-platinum electrodes. Magy kem folyoir 66 no.5:187-190 My '60.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

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**CIA-RDP86-00513R001755210007-3"**

TELCS, Ivan; NAGY, Ferenc

Kinetic investigation of the liquid-phase heterogeneous catalytic hydrogenation by electrochemical methods. II. Magyar kémiai folyóirat 67 no.11: 496-501 N '61.

1. Magyar Tudományos Akadémia Központi Kémiai Kutató Intézete, Budapest.

MAGY, Ferenc, dr. (Budapest, II., Pusztaszeri ut 57/69); TELCS, Ivan, dr.  
(Budapest, II., Pusztaszeri ut 57/69); HORANYI, Gyorgy, dr.  
(Budapest, II., Pusztaszeri ut 57/69)

Kinetic investigation of catalytic hydrogenation in liquid phase.  
Pt. 4. Acta chimica Hung 37 no.3:295-311 '63.

1. Zentralforschungsinstitut für Chemie der Ungarischen  
Akademia der Wissenschaften, Budapest.



L 33616-66 EWP(J)/T WE/RM

ACC NR: AP6025011

SOURCE CODE: HU/0005/65/071/011/0468/0471

AUTHOR: Telcs, Ivan; Szabo, Sandor; Nagy, Ferenc

30  
B

ORG: Central Chemical Research Institute, Hungarian Academy of Sciences (Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete)

TITLE: Mechanism of heterogeneous catalytic hydrogenation in aqueous solutions

SOURCE: Magyar kemiai folyoirat, v. 71, no. 11, 1965, 468-471

TOPIC TAGS: hydrogenation, oxidation kinetics, palladium

ABSTRACT: Hydrogen can be removed from palladium by a reducible substrate in aqueous solution. The oxidation potential set up during the process indicates whether the reduction of the substrate involves ionic steps. Orig. art. has: 6 figures. [Based on authors' Eng. abst.] [JPRS: 33,906]

SUB CODE: 07 / SUBM DATE: 24Feb65 / ORIG REF: 001 / OTH REF: 001

LS

Card 1/1

0916 0116

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33827

8/137/62/000/001/156/237  
A006/A101

AUTHORS: Gulevskaya, A.S., Lipatova, V.A., Tel'd, P.V.

TITLE: Heat conductivity of Fe and Si alloys containing  $\beta$ -leboite

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 48, abstract 11336  
("Tr. Ural'skogo politekhn. in-ta", 1961, no. 114, 90 - 95)

TEXT: Heat conductivity of alloys containing 40 - 100% Si was measured by A.P. Ioffe's method, which was modified for the use of 12-18 mm<sup>2</sup>-section specimens. The heat contact is assured by melting the ends into Sn. Heat-conductivity isotherms (20°C temperature) were plotted for commercial alloys whose leboite  $\beta$ -modification was p-conducting, and pure alloys with n-type conductivity. In spite of a substantial difference of the electron energy spectrum, heat conductivities of both series of specimens were merely slightly different. As far as the heat conductivity observed was a sum of phononic and electronic heat conductivities, the conclusion is drawn that the former is of predominant importance. The author studied the effect of admixtures to  $\beta$ -leboite up to 1 weight % Al; the addition

Card 1/2

33827

S/137/62/000/001/156/237  
A006/A101

Heat conductivity of Fe and Si alloys ...

of up to 0.1 weight % Al reduced sharply heat conductivity, further alloying had  
a lesser effect. There are 11 references.

L. Gomozov

[Abstracter's note: Complete translation]

Card 2/2

L 38937-66 EWP(t)/ETI JD

ACC NR: AP6029722

SOURCE CODE: CZ/0043/65/000/012/0918/0924

AUTHOR: Nenov, Nedjalko (Sofia); Popov, Christomil--Popov, Kh. (Sofia);  
Tomov, Trifon (Sofia); Stefanov, Georgij (Sofia); Tolgyessy, Juraj--Tel'deshi, Yu.  
(Docent; Engineer; Candidate of sciences; Bratislava)

ORG: [Nenov; Popov; Tomov; Stefanov] Laboratory for Activation analysis, Geological  
Research Institute, Main Administration of Geology and Protection of the Earth's  
Minerals; [Tolgyessy] Department of Radiochemistry and Radiation Chemistry, Slovak  
Technical University, Bratislava (Katedra radiochemie a radiacnej chemie Slovenskej  
vysokej školy technickej)

TITLE: Nondestructive determination of  $As^{11}$  in ores and minerals containing high  
amounts of Mn by means of neutron activation analysis

SOURCE: Chemicke zvesti, no. 12, 1965, 918-924

TOPIC TAGS: neutron radiation, analytic chemistry, gamma spectrometer, scintillation  
spectrometer

ABSTRACT: The authors describe a method that may be used in the presence of above  
1% of Mn without subjecting the sample to a radiochemical treatment; the samples  
are irradiated for 20 minutes by a stream of neutrons in a nuclear reactor. They  
are left standing for 70 hours so that interfering radiocompounds would be  
decomposed, and then As is determined by using a 400 channel scintillation gamma  
spectrometer. Sensitivity is  $5 \cdot 10^{-6}$  grams, accuracy  $\pm 15\%$ . Orig. art. has:  
2 figures and 3 tables. [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: 03Jun65 / ORIG REF: 001 / SOV REF: 001 / OTH REF: 007  
Card 1/1

GOROIANU, Y.; ONACA, N.; BRATU, I.; TELEMAN, M.; TELBA, G.

Troubles of glycoregulation during the preoperative phase of the ulcerative disease. Rumanian M. Rev. 2 no.1:27-28 Jan-Mar 58.

(BLOOD SUGAR,

preop. glycoregulation disord. in peptic ulcer)

(PEPTIC ULCER, blood in

preop. glycoregulation disord.)

DRUCKER, A.; FUHRMANN, Coloman, ing.; GOMOIU, Alex.; CALUGAREANU, Ad. ing;  
SAVIDIS, C., ing.; TELEA, Gh.; BORCEA, N.; JOGAREANU, O.; RIZEA,  
Nicolae; DUMITRESCU, Gheorghe.

Present problems of labor output rates. Probleme econ 17 no.5:  
157-160 My '64.

1. Director, "Victoria"-Calan Plant (for Drucker). 2. Head of the Department of Labor Organization, "Victoria"-Calan Plant (for Fuhrmann). 3. Director, "Steaua Rosie" Plant, Bucharest (for Gomoiu). 4. Head of the Department of Production Organization, "Steaua Rosie" Plant, Bucharest (for Calugareanu). 5. Director, Medgidia Cement Works (for Savidis). 6. Head of the Department of Labor Organization, Medgidia Cement Works (for Telea). 7. Director, Enterprise of Electricity, Sibiu (for Borcea). 8. Head of the Department of Labor Organization, Enterprise of Electricity, Sibiu (for Jogareanu). 9. Director, "Carmen" State Industrial Enterprise, Bucharest (for Rizea). 10. Head of the Department of O.N.M., "Carmen" State Industrial Enterprise Bucharest (for Dumitrescu).

COROIANU, V., dr.; BRATU, I., dr.; BALAS, L., dr.; TELEA, Gh., dr.

Induced hyperglycemia in the diagnosis of ulcer penetrating into the pancreas. Med. intern., Bucur 12 no.7:1093-1099 JI '60

1. Lucrare efectuata in Spitalul unificat C.F.R., Sibiu.  
(PEPTIC ULCER, diagnosis) (PANCREAS, diseases)  
(HYPERGLYCEMIA)

Country : ROMANIA H  
Category : Chemical Technology, Chemical Products (Part 3).  
Fermentation Industry  
Abs. Jour. : Ref Zhur-Kiba, 1959, No 7, 25102  
Author : Teleba, V.  
Institut. : -  
Title : Recommendation for the Gathering and Processing  
of Grapes  
Orig. Pub. : Gradina, via si livada, 1958, 7, No 10, 23-35  
Abstract : No abstract.

0 10: 0/1



CZECHOSLOVAKIA

TELECKE, N.; Research Institute for Physiatics, Balneology and Climatology (Vyzkumny Ustav pro Fyziatrii, Balneologii a Klimatologii), Marianske Lazne, Director (Reditel) Prof Dr K. PREROVSKY.

"Thermoregulatory Processes in Obesity."

Prague, Casopis Lokaru Ceskych, Vol 105, No 22, 3 Jun 66, pp 600 - 601

Abstract: Heat exchange between the organism and the surroundings was investigated in obese and normal people. The investigations were made at room temperature at 25°C in 123 people, in a bath at 38°C in 54 people, in a cold bath at 25°C in 36 people, and in cool air at 15°C in 52 people. Under all of these conditions differences in heat exchange between obese and normal people were found. In cold surroundings obese people show lower skin temperatures than normal people, and as a result they show lower metabolic heat losses. In hot media the heat absorption in obese people is delayed for a longer period than in normal people. The layer of fat acts as insulation under all conditions. 5 Western, 3 Czech references.

1/1

TELECHUN, Stanislaw

Fundamentals and organization of cooperation of the Central  
Institute of Scientific-Technical and Economic Information with  
field agencies of technical and economic information. Akt probl  
inf dok 7 no.2:30-34 Mr-Ap '62.

TELECKY, Ilja, MUDr.

Interstitial nephritis in urology. Cas. lek. cesk. 96 no.48:Lek. veda  
sahr.:169-172 29 Nov 57.

1. Chirurgická klinika hygienické fakulty Karlovy university v Praze XII,  
prednosta prof. Dr Emerich Polak.  
(NEPHRITIS, INTERSTITIAL,  
review (Cz))

TELECKY, Ilja

The results of fuller-freyer prostatectomy with primary closure of the bladder. Acta univ. carol. [med.] 7 no.5:599-608 '61.

1. Chirurgická klinika lékařské fakulty Hygienické University Karlovy  
v Praze, přednosta prof. MUDr. Em. Polak.  
(PROSTATECTOMY)

TELUSKY, J.

"Elasticity of silicon steels in hot state."

Hutník. Praha, Czechoslovakia. Vol. 9, no. 4, Apr. 1959

Monthly List of East European Accessions (SEMI), 10, Vol. 4, No. 6, Jun 59, Unclass

PEREDEL'SKIY, M. [Perediel's'kyi, M.]; POVOLOTSKIY, A. [Povolots'kyi, A.];  
TELEDIDO, A.; BARANOVSKIY, A. [Baranovs'kyi, A.], glavnyy red.;  
DROGICHINSKIY, M. [Drohichyns'kyi, M.], red.; KOCHUBEY, A., red.;  
OLEKSYUK, I., red. [deceased]; ZHURBA, S., otv. za vypusk;  
LYAMKIN, V., tekhn.red.

[The Soviet Ukraine in the seven-year plan, 1959-1965] Radians'ka  
Ukraina v semirichtsi, 1959-1965. Kyiv, Derzhpolitvydav URSR, 1959.  
42 leaves. (MIRA 13:5)

(Ukraine--Economic policy)

SICH, A.[Sych, A.]; TELEDIDO, A.; TESLYA, P.; CHEGORYAN, O.[Chehorian, O.];  
POVOLOTSKIY, A.I.[Povolots'kyi, A.I.], red.; LYAMKIN, V., tekhn.  
red.

[New developments on the map of the Ukraine; album of diagram-  
matic maps of economic administrative regions] Nove na karti  
Ukrainy; al'bom kartoskhem ekonomichnykh administratyvnykh raioniv.  
n.p. Derzhpolitvydav URSR, 1961. 14 maps. (MIRA 15:7)  
(Ukraine--Maps)

TELEFUS, A.

Building the material and technical foundation of socialism in the  
German Democratic Republic. Vop. ekon. no.8:133-141 Ag '63.  
(MIRA 16:9)  
(Germany, East--Economic conditions)



TUGOVIK, G.I.; TELEGA, Yu.T.

Geological characteristics of the Dolon-Modon deposit. Geol. rud.  
mestorozh. no.5:118-122 S-O '60. (MIRA 13:10)

1. Irkutskiy gornometallurgicheskiy institut, Irkutskoye geologicheskoye upravleniye.

(Transbaikalia--Geology, Economic)

HAIASZ, S.; POLGAR, G.; TELEGDI, A.

Reciprocal action between virus diseases and tuberculosis in childhood. Orv. hetil. 93 no. 48:1368-1371 30 Nov 1952. (CLML 24:1)

1. Doctors. 2. Szabadsaghegy State Children's Sanatorium (Director -- Dr. Istvan Flesch).

TELECDI, Carol, ing.

The Praid Salina in full development. Rev min 13 no.8:362-365  
Ag '62.

TELEGDI, Ervin, dr.; VEZEKENYI, Nora

On snacks for school children in the forenoon in Budapest. Nepegeszsegugy  
44 no.2:51-56 F '63.

1. Kozlemený az Országos Elelmezés- és Táplálkozástudományi Intézetből  
(igazgató: Tarján Robert dr. egyetemi tanár).  
(NUTRITION) (MILK)

68

116

Vitamin C deficiency in typhoid fever. Istvan Tekedy. --  
Orosi Hetslap 83, 412 18(1979).--Ascorbic acid defi-  
ciency does not occur in light cases of typhoid. Several  
cases showed ascorbic acid deficiency of 1000 to 4000 mg.  
Administration of ascorbic acid decreased the intoxication  
symptoms and greatly increased the resistance of the or-  
ganism. The no. of thrombocytes increased in almost all  
cases. S. S. de Fina

ASB-SLA DETALUPGICAL LITERATURE CLASSIFICATION

GOLDBERGER, A.; HEGYMÉGI KISS, P.; SZÖKE, G.; TELEDDI, I.

Significance of bacilli secretion in infantile tuberculosis. *Gyer-  
mekgyógyászat*. 2 no.9:273-276 Sept 51. (CIAM 21:1)

1. Doctors. 2. Szabadsághegyi State Children's Sanatorium (Director  
Head Physician--Dr. Istvan Flesch).

BALLO, T.; EGYED, M.; TELEGDI, I.

Surgical and therapeutic (PAS) management of tuberculous empyema.  
Tuberk. kerdesei 4 no.4:5-10 Dec 51. (CIML 21:5)

1. Assistant physician for Ballo; resident physician for Egyed; Head physician for Telegdi. 2. Margonhegy Hospital (Consiliarius--Prof. Doctor Ferenc Kovats), Fourth District General Hospital (Director and Head Physician--Dr. Rudolf Devenyi), and Koranyi Tuberculosis Hospital (Director and Head Physician--Dr. Pal Dessauer).

TELEGDI, I.

Trial therapy with 8-orthohydroxyquinolinemethylsulfonic acid in juvenile tuberculosis. Orv. hetil. 93 no. 13:399 30 Mar 1952.

(OIML 23:3)

1. Doctor. 2. Szabadsaghegy State Children's Sanatorium (Director - Head Physician -- Dr. Istvan Flesch) and Fourth District Children's Tuberculosis and Therapeutic School (Director - Head Physician -- Dr. Istvan Telegdi).



TELEGDI, I.; POLGAR, G.

Preventive vaccination against diphtheria in tuberculosis in children.  
Orv. hetil. 94 no.20:555-556 17 May 1953. (CML 25:1)

1. Doctors. 2. Szabadhegyi State Children's Sanatorium (Director -  
Dr. Istvan Flesch).

TELEGDI, Istvan, dr. főorvos

Rehabilitation of tuberculous child. Gyermekgyógyászat 5 no.10:  
299-302 Oct 54.

1. A Szabadsághegyi Állami Gyermekszanatorium (igazgató: Flesch  
István dr.) közleménye.

(TUBERCULOSIS, in inf. & child  
rehabil.)

(REHABILITATION, in various dis.  
tuberc. in child.)

*TELEGDI ISTVAN*

HOFFMANN, Ida, dr.; TELEGDI, Istvan, dr.

Isoniazid therapy of primary tuberculosis. Orv. hetil. 95 no.31:  
842-844 1 Aug. 54.

1. A Szabadsaghegyi Allami Gyermekszanatorium (igazgato-focorvos:  
Flesch Istvan dr.) kozlomenye

(TUBERCULOSIS, PULMONARY, therapy  
isoniazid in primary complex)

(NICOTINIC ACID ISOMERS, therapeutic use  
isoniazid, pulm. tuberc. primary complex)

TELEGDI, Istvan, dr.; GRICS, Laszlo, dr.

Therapeutic use of *gymnastics* in selected cases of pulmonary tuberculosis in puberty. *Gyermekgyógyászat* 6 no.10:313-315 Oct 55

1. Szentgotthardi Gyermekktbc. szanatorium (Igazgató: Farkas Ferenc dr.) közleménye.

(TUBERCULOSIS, PULMONARY, in infant and child

ther., *gymnastics*, results)

(EXERCISE THERAPY, in various diseases

tuberc. pulm. in puberty, *gymnastics*, results)

GORGANYI-GOTTCHER, Oszkar, dr., kandidatus; SIRALY, Ferencné, dr.,  
TELEDGI, Istvan, dr.

The importance of pulmonary resection in the healing of infantile tuberculosis. Tuberk.kérdesi 8 no.1:16-21 Feb 55.

1. A Szabadsághegyi Állami Gyermekszanatorium) igazgató: Flesch István dr.) közleménye.

(TUBERCULOSIS, PULMONARY, surgery  
lung resection in inf. & child., results (Hun)

KALOCSAY, Kalman, dr.,; TALEGDI, Istvan, dr.

Prognosis in tetanus and evaluation of serum therapy. Orv.  
hetil. 96 no.6:154-158 6 Feb 55.

1. A Budapesti Laszlo korhaz Belosztalyanak (foorvos: Kalocsay  
Kalman dr. kandidatus) kozlemenye.

(TETANUS, therapy,  
serother., & progn.)  
(IMMUNE SERUMS, therapeutic use,  
tetanus)

EXCERPTA MEDICA Sec 7 Vol. 11/6 Paediatrics June 57

1520. TELEGDI I., TÓTH E., GOLDBERGER A. and TEGE A. Allami Gyermekszanat. Primér tbc osztályának közleménye, Szabadsághegy. \*Adatok a tuberkulózisos gyermekek anamnesiséhez. Report on the history of tb children ORV. HETIL. 1956, 97/6 (153-155) Graphs 5

The following has been concluded from the history of 1000 children with tb, and 100 children mistakenly admitted into the sanatorium (age 3-14):- (1) The children were infected at a preschool age, and at an early school age in an equal proportion. (2) The number of children vaccinated with BCG was not greater among those who lived in an infected environment, than among those infected from unknown sources. (3) Children from an infected environment who were not vaccinated became ill in the 6th to 12th months, but the majority of the vaccinated children became ill after 3-4 yr. (4) The diagnosis before admission was based on general symptoms, which was responsible for the mistakes. (5) In about half of all cases the new disease process was revealed by symptoms, in the other half the disease displayed no symptoms, or otherwise passed unobserved.

(VII, 15\*)

TELEGDI, Istvan, dr.; BALINT, Judit, dr.; GOROVE, Laszlo, dr.; MATUSKA,  
Gergely, dr.; PINTER, Gabriella, dr.; STREBELY, Gusztav, dr.;  
SZENICZEY, Kornelia, dr.

Clinical data on pleuritis exsudativa tuberculosa in children.  
Orv.hetil. 101 no.43:1530-1534 23 0 '60.  
(TUBERCULOSIS PULMONARY in inf & child)



TELEGDI, Istvan, dr.; BALINT, Judit, dr.; GOROVE, Laszlo, dr.; MATUSKA, Gergely, dr.; PINTER, Gabriella, dr.; STREBELY, Gusztav, dr.; SZENICZEY, Kornelia, dr.

Clinical data on tuberculous erythema nodosum in children. Orv. hetil. 101 no.49:1740-1743 4-D'60.

1. Szabadsaghegyi All. Gyermekszanatorium.  
(ERYTHEMA NODOSUM etiol)  
(TUBERCULOSIS PULMONARY compl)

KNAUSZ, Dezso; GARZO, Tamasne; GOMORY, Pal; TELEGDI, Lajos

Synthesis and gas chromatographic determination of vinyl-chlorine-silanes. *Magy kem folyoir* 70 no.3:119-122 3tr '64.

1. Chair of General and Inorganic Chemistry, Lorand Eotvos University, Budapest, and Research Group of Inorganic Chemistry, Hungarian Academy of Sciences.

L 46222-66 EWP(j) RM

ACC NR: AT6034082

SOURCE CODE: HU/2502/65/04,5/001/0031/0036

AUTHOR: Csakvari, Bela--Chakvari, B.; Jenei, Sandor--Yenem, Sh.; Knausz, Dezas--  
Knaus, D.; Telegdi, Lajos

ORG: Department of General and Inorganic Chemistry, Eotvos Lorand University (Eotvos  
Lorand Tudományegyetem, Általános és Szervetlen Kémiai Tanszék); Research Group of  
Inorganic Chemistry, Hungarian Academy of Sciences, Budapest (Magyar Tudományos Akadémia,  
Szervetlen Kémiai Kutatócsoport)

TITLE: Direct synthesis of alkylchlorosilanes III. Synthesis of ethylchlorosilanes  
from a mixture of ethyl chloride and gaseous hydrogen chloride

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 45, no. 1, 1965, 31-36

TOPIC TAGS: silane, chemical synthesis

ABSTRACT: Experimental evidence has been gathered to show that the interaction of  
trichlorosilane and ethyl chloride results in the formation of trichloroethylsilane.  
This reaction plays an important role in the direct synthesis of ethylchlorosilanes  
from a gaseous mixture of hydrogen chloride and ethyl chloride. Orig. art. has:  
4 figures and 2 tables. [Orig. art. in Eng.] [JPRS: 33,540]

SUB CODE: 07 / SUBM DATE: 27Oct64 / ORIG REF: 003 / SOV REF: 005  
OTH REF: 003

Card 1/1 mjs

KELETI, T.; TELEGDI, M.

Comparative studies on d-Glyceraldehyde-3-Phosphate Dehydrogenases.  
Acta physiol. hung. 15 no.4:281-290 1959

1. Biochemical Institute of the Hungarian Academy of Sciences,  
Budapest.

(DEHYDROGENASES, chem.)

(ZINC, chemistry)

KELETI, T.; TELEGI, M.

Comparative studies on D-glyceraldehyde-3-phosphate dehydrogenases  
IX. Effect of phosphate ion on the oxidation of D-glyceraldehyde-  
3-phosphate. Acta physiol.hung. 16 no.4:235-241 '59.

1. Biochemical Institute of the Hungarian Academy of Sciences,  
Budapest.

(DEHYDROGENASES metabolism)  
(PHOSPHATES pharmacol.)  
(GLYCKRALDEHYDE metab.)

KELTI, T.; TELEGI, M.

Comparative studies on D-glyceraldehyde-3-phosphate dehydrogenases.  
X. studies on the mechanism of action of the enzyme. Acta physiol.  
hung. 16 no.4:243-255 '59.

1. Biochemical Institute of the Hungarian Academy of Sciences,  
Budapest.

(DEHYDROGENASES metab.)  
(PHOSPHATES pharmacol.)

KELETI, T.; TELEGDI, Marianna.

Studies on D-glyceraldehyde-3-phosphate-dehydrogenase. XI. Adenosine triphosphate - inosine monophosphate transphosphorylase reaction catalyzed by D-glyceraldehyde-3-phosphate dehydrogenase. Acta physiol.hung 17 no.2:141-141 '60.

1. Institute of Biochemistry of the Hungarian Academy of Sciences, Budapest.

(DEHYDROGENASES chem.)

BOROSS, L.; KELETI, T.; TELEGDI, Marianna

Studies on D-glyceraldehyde-s-phosphate dehydrogenase. XII. Studies of the enzyme with ion exchange chromatography. Acta physiol.hung 17 no.2:153-159 '60.

1. Institute of Biochemistry of the Hungarian Academy of Sciences, Budapest.

(DEHYDROGENASES chem.)



KELETI, T.; GYORGYI, S.; TELEGDI, Marianna; ZALUSKA, Halina

Studies on d-glyceraldehyde-3-phosphate dehydrogenases. XIX. The role of the Zn-ions of the enzyme. Acta physiol. acad. sci. hung. 22 no.1:11-19 '62.

1. Institute of Biochemistry, Hungarian Academy of Sciences, and  
Institute of Medical Physics, Medical University Budapest.  
(DEHYDROGENASES) (ZINC)

TELEGDI, Marianna

Isolation of crystalline  $\alpha$ -glycerophosphate dehydrogenase (L-glycerol-3-phosphate; NAD oxidoreductase 1.1.1.8) from rabbit muscle. Acta physiol. acad. sci. Hung. 25 no.2:177-180 '64.

1. Institute of Biochemistry, Hungarian Academy of Sciences, Budapest.

TELEGDI, Marianna; KELETI, T.

The role of sulphhydryl groups in -glycero-phosphate dehydrogenase  
(L-glycerol-3-phosphate: NAD oxidoreductase 1.1.1.8) activity.  
Acta physiol. acad. sci. Hung. 25 no.2:181-189 '64.

1. Institute of Biochemistry, Hungarian Academy of Sciences,  
Budapest.

JOSEPH VIKTOR, O.I., TELETYPE, M.

Members of black groups of aspartic acid transaminase.  
(MIRA 18:6)  
Glenview, Ill. 60024-1800 Jan 1966.

1. Institute of Radiation Physics, Uzhgorodskiy Khimicheskoy Biologii AN  
USSR, Moscow. 2. Institute of Chemical Physics, Vengerskoy AN, Budapest  
(for 1966).

L 1987-66 EWA(j)/EWA(b)-2 RM

ACCESSION NR: AT5024295

HU/2505/64/025/002/0177/0180

AUTHOR: Telegdi, Marianna

TITLE: Isolation of crystalline alpha-glycerophosphate dehydrogenase (L-glycerol-3-phosphate: NAD oxidoreductase 1.1.1.8) from rabbit muscle

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 25, no. 2, 1964, 177-180

TOPIC TAGS: biochemistry, rabbit, muscle physiology, organic phosphorus compound, myology

ABSTRACT: A new method has been developed for the isolation and crystallization of alpha-glycerophosphate dehydrogenase from rabbit muscle. The preparation was shown to be homogeneous chromatographically. The yield was better and the specific activity was about 8 times greater than that of the best preparations described previously. "The author is greatly indebted to Prof. F. B. Straub for his continuous interest in this study, and to Mrs. M. Szegvari for valuable technical assistance." Orig. art. has: 1 table.

Card 1/2

L 1987-66

ACCESSION NR: AT5024295

ASSOCIATION: Institute of Biochemistry, Hungarian Academy of Sciences, Budapest <sup>3</sup><sub>40.55</sub>

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF SOV: 001

OTHER: 004

JPRS

Card 2/2 *DP*

L 1988-66 EWA(j)/EWA(b)-2 RM

ACCESSION NR: AT5024296

HU/2505/64/025/002/0181/0189

AUTHOR: Telegdi, Marianna; Keleti, Tamas

TITLE: Role played by sulfhydryl groups in the activity of alpha-glycerophosphate dehydrogenase (L-glycerol-3-phosphate: NAD oxidoreductase 1.1.1.8)

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 25, no. 2, 1964, 181-189

TOPIC TAGS: biochemistry, rabbit, muscle physiology, myology, enzyme, organic phosphorus compound

ABSTRACT: [English article, authors' English summary modified] The  $\alpha$ -glycerophosphate dehydrogenase isolated from rabbit muscle contains 9-11 SH groups per molecule of protein. When the SH groups are blocked by PCMB, the reaction catalyzed by the enzyme is inhibited in both directions. For complete inactivation, 6-7 SH groups must be blocked. The inhibition of the enzymatic activity is caused by the blocking of the SH groups, it is instantaneous and can be reversed by cysteine. This process is followed by the al-

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L 1988-66

ACCESSION NR: AT5024296

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teration of the steric structure, a time consuming reaction which can only partly be reversed by cysteine and which results in a decreased ability of reactivation. Under certain conditions, the enzyme can undergo spontaneous inactivation accompanied by the disappearance of some of its free, titratable SH groups. This inactivation can not be reversed by cysteine.

"We are indebted to Prof. F. B. Straub<sup>44,55</sup> for valuable suggestions and to Mrs. M. Szegvari<sup>44,55</sup> for skillful technical assistance." Orig. art. has: 3 graphs, 2 tables.

ASSOCIATION: Institute of Biochemistry, Hungarian Academy of Sciences, Budapest

SUBMITTED: 00

ENCL: 00

<sup>44,55</sup> SUB CODE: LS

NR REF SOV: 002

OTHER: 007

JPRS

Card 2/2 JP



TELEGDI, Zsigmond, a nyelvészeti tudományok kandidátusa, egy.tanár (Budapest)

New development in linguistics. Magyar tud 68 no.4:221-228 Ap '61.  
(EEAI 10:6)

1. Eotvos Lorand Tudományegyetem, Budapest.  
(Language and languages)

5

REPORT ON EXPLORATIONS OF COAL DEPOSITS IN THE KOMLO AREA OF HUNGARY IN THE YEARS 1936 TO 1943. K. Telegyi-Moth. (bányászati és kohászati Lapok, 1948, vol. 6, June, pp. 161-169). (In Hungarian). Exploration work in the Komló area was started in 1936 and test borings were started the following year with deep-boring equipment suitable for bores to a depth of 800 m. The test bores were 407 to 874 m deep and details of the most important ones are given in the paper. The exploration work covered an area of 4,685,000 sq. m., and the average layer thickness of the coal deposits discovered was 10 m. The available coal deposits in this area are estimated at approximately 30 million tons and this is sufficient to permit an output of 600,000 tons/annum for 50 years.—E.G.

TELEGI-ROTH, KAROLY.

TELEGDI-ROTH, KAROLY. A bukkszeki asvanykutatas es termeles foldtani tanulsagai, irta Telegdi-Roth Karoly. A Bukkszeki kiserleti banya foldtani tanulsagai, irta Szentes Ferenc. Enseignements geologiques de la prospection et de la production du petrole a Bukkszek. Enseignements geologiques de la mine experimentale de Bukkszek. Budapest, 1951. 32 p. (A Magyar Allami Foldtani Intezet evkonyve, 40. kot., 2. fuzet) (Geologic lessons from mineral research and production at Bukkszek. Ferenc Szentes: Geologic lessons from the Bukkszek Experimental Mine. French and Russian summaries. maps (part fold.), bibl., diagrs. (part fold.))

TECHNOLOGY  
Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

ENDROCZI, E.; TELEGDY, Gy.; LISSAK, K.

Analysis of the individual variations of adaptation in the rat, on the basis of conditioned reflex and endocrine studies. Acta physiol. hung. 11 no.3-4:393-398 1957.

1. Institute of Physiology, Medical University, Pecs.

(REFLEX, CONDITIONED

individual variations in recovery of alimentary conditioned reflex after breakage in rats & eff. of ACTH.

(ACTH, eff.

on recovery of alimentary conditioned reflex after breakage in rats.

ENDROOZI, E.; TELEGDY, G.; MARTIN, J.

Analysis of  $\Delta^4$ -3-ketocorticoids in human placenta by paper chromatography.  
Acta physiol. hung. 14 no.4:311-316 1958.

1. Institute of Physiology, Medical University, Pecs.

(ADRENAL CORTEX HORMONES

$\Delta^4$ -3-ketocorticosteroids in human placenta, metab. & determ. by  
paper chromatography)

(PLACENTA, metab.

$\Delta^4$ -3-ketocorticosteroids, metab. & determ. in human placenta by  
paper chromatography)

ENDROCZI, E.; LISSAK, K.; TELEGDY, G.

Influence of sexual and adrenocortical hormones on the maternal aggressivity. Acta physiol. hung. 14 no.4:353-357 1958.

1. Institute of Physiology, Medical University, Pecs.

(BEHAVIOR

maternal aggressivity in lactating rats, eff. of adrenal cortex & sex hormones)

(LACTATION, physiol.

eff. of adrenal cortex & sex hormones on maternal aggressivity in rats)

(ADRENAL CORTEX HORMONES, eff.

on maternal aggressivity in lactating rats)

(SEX HORMONES, eff.

same)

EXCERPTA MEDICA Sec 3 Vol 14/4 Endocrinology Apr 60

718. THE EFFECT OF PROGESTERONE TREATMENT AND CASTRATION  
ON ADRENAL CORTICAL SECRETION - Telegdy G. and Endrőczy  
E., Inst. of Physiol., Med. Univ., Pécs - ACTA PHYSIOL. ACAD. SCI.  
HUNG, 1959, 16/1 (23-25) Tables 1

In dogs treated with progesterone for 7 to 12 days adrenal cortical secretion and also the ratio of hydrocortisone to corticosterone showed a significant rise. After castration, the resting secretion measured under general anaesthesia was definitely lower than in the controls. No sex differences were noted either in the progesterone-treated or in the castrated series.

TELEGDY, Gy.; ENDROCZI, E.; HUSZAR, L.

Further studies on the corticoid synthesis of the placenta.  
Acta physiol. hung. 17 no.1:57-61 '60.

1. Institute of Physiology, Medical University, Pecs.  
(PLACENTA physiol.)  
(ADRENAL CORTEX HORMONES physiol.)



TELEGDY, Gy., ENDROCZI, E.; LISSAK, K.

Adrenocortical corticoid secretion in the guinea pig. Acta physiol.  
hung. 18 no.3:211-215 '60.

1. Institute of Physiology, Medical University, Pecs.  
(ADRENAL CORTEX HORMONES physiol)

TELEGDY, Gy.

The effect of carbonic anhydrase inhibition on the corticoid synthesis  
in vitro of the adrenal cortex. Acta physiol. hung. 20 no.1:7-10  
'61.

1. Institute of Physiology, Medical University, Pecs.  
(ADRENAL CORTEX HORMONES metabolism)  
(ACETAZOLAMIDE pharmacology)

TELEGDY, G.; ENDROCZI, E.

Progesterone content of the dog's ovarian venous blood and ovarian tissue. Acta physiol. hung. 20 no.3:277-283 '61.

1. Institute of Physiology, Medical University, Pecs.

(PROGESTERONE chemistry)  
(OVARY chemistry)  
(OVARY blood supply)

FENDLER, K.; KARMOS, G.; TELEGDY, G.

The effect of hippocampal lesion on pituitary-adrenal function. Acta  
physiol. hung. 20 no.3:293-297 '61.

1. Institute of Physiology, Medical University, Pecs.

(HIPPOCAMPUS physiology)  
(PITUITARY GLAND physiology)  
(ADRENAL GLAND physiology)

[HUNGARY

TELEGDY, Gyula; Institute of Physiology of the Medical University (Orvostudományi Egyetem Élettani Intézet), Pécs.

"Paper Chromatographic Determination of the Progesterone Content of Porcine Ovarial Tissue."

Budapest, Kiserletes Orvostudomány, Vol 14, No 5, Oct 62, pp 527-531.

Abstract: [Author's Hungarian summary] Various structures of pig ovarian tissue were investigated by a paper chromatographic method for their progesterone content. Yellow body tissue of more than 5 mm diameter contained 5.1 micrograms of progesterone per gram, of less than 5 mm diameter contained 0.39 micrograms per gram, and follicles at various stages of development, without yellow bodies, contained 0.09 micrograms per gram. [24 references, mostly Western.]

L  
1/1

TELEGDY, Gy.; HUSZAR, L.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755210007-3"

The effect of FSH and LH on the dog's ovarian progesterone and androstene-3-17-dione secretion in vivo. Acta physiol. acad. sci. hung. 21 no.4:339-345 '62.

1. Institute of Physiology, Medical University, Pécs.  
(FSH) (ANDROGENS) (GONADOTROPINS, CHORIONIC)  
(PROGESTERONE) (OVULATION)

FENDLER, K.; TELEGDY, Gy.

Effect of oxytocin and vasopressin treatment on the oxytocic activity of the posterior pituitary in the rat. Acta physiol. acad. sci. hung. 22 no.1:59-63 '62.

1. Institute of Physiology, Medical University, Pecs.  
(OXYTOCIN) (VASOPRESSIN) (PITUITARY GLAND, POSTERIOR)

TELEGDY, Gy.; HUSZAR, L.; ENDROCZI, E.; LISSAK, K.

The effect of sexual hormones on the function of the pituitary-adrenocortical system in the female rat. Acta physiol. acad. sci. hung. 22 no.2:171-177 '62.

1. Institute of Physiology, Medical University, Pecs.  
(PITUITARY GLAND) (ADRENAL CORTEX)  
(CASTRATION) (ESTRONE) (PROGESTERONE)

TELEGDI, D. [Telegdy, G.]; ENDRETSI, Ye.[Endroczi, E.]; LISHAK, K. [Lisak, K.]

Progesterone secretion by the ovary during various stages of pregnancy and lactation. Probl. endok. i gorm. 10 no.1:103-106 Ja-F '64.

(MIRA 17:10)

1. Institut fiziologii Meditsinskiy universitet, Pech, Vengriya.



ACCESSION NR: AT4035344

H/2505/64/024/003/0287/0292

AUTHOR: Fendler, Kornel; Tolegdy, Gyula; Endrocsi, Elemer

TITLE: Effect of chronic stress on the oxytocic and antidiuretic activity of the hypophysis in the rat

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 24, No 3, 1964, 287-292

TOPIC TAGS: albino rat, hypophysis, hypophyseal oxytocic activity, hypophyseal antidiuretic activity, chronic stress, hypothalamic-hypophyseal system, hydration

ABSTRACT: Female albino rats were forced to swim daily until total exhaustion, over a period of 29 days. The animals were divided into groups and were examined at 3- to 4-day intervals for changes in the hypophyseal oxytocic and antidiuretic activities. The oxytocic activity of the rats forced to swim showed a slight decrease on the 6th and 8th days of swimming, followed by

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ACCESSION NR: AT4035344

a considerable increase on the 12th and 15th days. This four-to seven-fold increase (as compared with the control values) reached the maximum on the 18th day, the declined gradually on the 22nd and 29th days, but did not return to the initial level during the period of observation. Pituitary antidiuretic activity showed an increase in the animals forced to swim under the above experimental conditions. Orig. art. has: 2 figures.

ASSOCIATION: Orvostudományi Egyetem Elettani Intézete, Pécs. (Institute of Physiology, Medical University).

SUBMITTED: 08Apr63

DATE ACQ: 13May64

ENCL: 00

SUB CODE: IS

NO REF SOV: 000

OTHER: 029

Card 2/2

FENDLER, K.; TELEGDY, Gy.

Changes of pituitary oxytocin content on daily cooling in the rat. Acta physiol. acad. sci. Hung. 25 no.1:27-30 '64.

1. Institute of Physiology, University Medical School, Pecs.

TELEGDY, Gy.; SCHREIBER, C.; LINDEN, L.

Effect of oestrogens implanted into the hypothalamus on the activity of the pituitary-adrenocortical system. *Acta physiol. Acad. sci. Hung.* 25 no.3:229-234 1964

1. Institute of Physiology, University Medical School, 'Esz.

TIMSON, G. J. 1964.

The effect of posterior pituitary hormones on adrenal and ovarian progesterone secretion in dogs. *Ann. physiol. Acad. sci. Hung.* 26 no.4:359-364 1964

1. Institute of Physiology, University Medical School, Pécs.

TELEGDY, Gy.; LISSAK, K.

The effect of progesterone on adrenal corticosterone and aldosterone secretion in the female rat. Acta physiol. acad. sci. Hung. 26 no.4:313-318 '65.

1. Institute of Physiology, University Medical School, Pecs.

TELEGDY, Gy.; ENDROCZI, E.

Estimation of adrenal function in vivo and in vitro: Comparison of the two methods of assay in the rat treated with ACTH. Acta physiol. acad. sci. Hung. 28 no.2:133-137 '65.

1. Institute of Physiology, University Medical School, Pecs.  
Submitted September 14, 1964.

L 29390-66

ACC NR: AT6019808

SOURCE CODE: HU/2505/65/028/002/0133/0137

AUTHOR: Telegdy, Gyula; Endroczi, Elemer: 12

ORG: Institute of Physiology, Medical University of Pecs (Pecsi Orvostudományi Egyetem, Elottani Intezet) B+1

TITLE: Estimation of adrenal function in vivo and in vitro: comparison of the two methods of assay in rats treated with ACTH 22

SOURCE: Academiae scientiarum hungaricae. Acta physiologica, v. 28, no. 2, 1965, 133-137

TOPIC TAGS: rat, ACTH, endocrinology, corticosteroid

ABSTRACT: The effect of i.p. injection of 3 IU/100 g doses of ACTH on the adrenal corticosteroid secretion of the rat has been studied in vivo and in vitro 30, 60, and 90 minutes after their administration. At 30 minutes, following the injection of ACTH the corticosterone content of the adrenal venous blood was found to be 33 per cent higher; at 60 minutes, 48 per cent higher; at 90 minutes, 49 per cent higher than in the controls. The corticosterone production by the removed adrenal was at 30 minutes 59 per cent higher, at 60 minutes 19 per cent higher, and at 90 minutes 4 per cent higher than the control values. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: 14Sept64 / ORIG REF: 006 / OTH REF: 012

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1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
<p>15</p> <p>CA</p> <p>Experiments on the biological activity of soil protozoa. L. DE TUBEROV KOVACEK.  <i>Kosice. Akademický 31, 223 31(1928)</i> --Daily changes in the numbers of amoebae  and bacteria in great garden soil were investigated. The data check for Hungarian  with the theory of Rumel and Hutchinson. Protozoa seem to have a stimulating effect  on <i>Asotobacter</i> cultures. <i>Asotobacter</i> cultures vitiated with <i>Colpidium</i> and <i>Paramacium</i>  fixed more N than pure ones. S. S. DE FINALY</p>																			
<p>AS-514 METALLURGICAL LITERATURE CLASSIFICATION</p>																			

15

*CA*

Manufacture of artificial stall manure from straw. L. DE TISODY Kovács.  
*Kisérlet. Kísérletények 31, 347-72(1928).*—Straw was fermented under aerobic condi-  
 tions with addn. of (1) Adeo powder, (2) a mixt. of nutrient salts and (3) P compds.  
 and dung water. The product in each case was similar to natural manure. Anaerobic  
 fermentation was not so effective. As for biol. factors, multiplication of thermophilic  
 bacteria is the first stage; then follow molds and later bacteria. S. S. DE FINÁLY

ASS-SEA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																									
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SUBSTANCES AND PROPERTIES													SUBSTANCES AND PROPERTIES												
<p><i>ca</i></p> <p>The chemistry of artificial manure making and materials used. F. ZUCKER AND L. DE TILLEY. <i>Khimiya</i> 3, 194 205 (1930). - Substances giving a highly alk. reaction should be applied. The conditions prescribed by Krantz for "Edelman" manuf. should be followed in order to obtain a well rotted stall manure. H. N. DE PINALY</p>																									
<p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									

COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX	
<p>Application of colorimetric <math>P_2O_5</math> determination in practical agricultural chemistry. János IM Glória and László Telegyi-Kovács. <i>Kisérleti Közlemények</i> 37, 157-64 (1934).—The reliability and practical availability of the method of Bell and Dole were examined. Determinations with buffer solutions of known <math>P_2O_5</math> contents showed differences up to 1% from the gravimetric data. The method is advisable for Neubauer determinations, owing to its rapidity, economy, simplicity and relative exactness. For data of <math>P_2O_5</math> in fertilizers some slight modifications are needed, the study of which is under way. S. H. de Finlay</p>		<p>15</p>	
ASR-ELA METALLURGICAL LITERATURE CLASSIFICATION		CLASSIFICATION	
<p>SECTION 1</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>		<p>SECTION 2</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>	

COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX	
<p>The composition of sorghum juice and sorghum sirup. László Telepdy-Kovács (Hungarian Chem. Inst. and Central Expt. Sta. Budapest, Hungary). <i>Kisföldi Készlemez</i> 44, 102-3 (1941).—Hungarian sorghum juice had d. 1.0330-1.0654, and contained dry matter 13.0-22.2, total sugar as invert sugar 0.7-20.1, sucrose 7.4-12.1, ash 0.30-0.95, total acid as malic acid 0.1-0.5, protein 1.4%. The sirups had d. 1.2081-1.3702 and contained dry matter 41.5-84.1, total sugar 37.2-74.8, sucrose 0.0-41.0, ash 2.0-2.8, total acid as malic acid 0.4-0.8, and protein 2.0-3.6%. Both juice and sirup can be fermented to ale beverages or to vinegars. István Fényi</p>			
<p>ASM-51A METALLURGICAL LITERATURE CLASSIFICATION</p>			
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SOURCE #7		SOURCE #8	
SOURCE #9		SOURCE #10	
SOURCE #11		SOURCE #12	
SOURCE #13		SOURCE #14	
SOURCE #15		SOURCE #16	
SOURCE #17		SOURCE #18	
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SOURCE #97		SOURCE #98	
SOURCE #99		SOURCE #100	

Ca

Principles of up-to-date field experimentation. László  
Telenyi-Kurda. (Hungarian Chem. Inst. and Central  
Expt. Sta., Budapest, Hungary). *Kísletügyi Közle-  
mények* 46, 183-93 (1943). Difficulties arising from the  
heterogeneity of soils can be overcome by systematic repe-  
tition on relatively small plots. The elements of varia-  
tion can be removed by the mathematical procedures of  
analysis of variance. To obtain a valid estimate of exptl.  
error certain math. conditions must be fulfilled. The meth-  
ods of randomized blocks and Latin square are explained.  
István Fényi

ASB 55A BOTANICAL LITERATURE CLASSIFICATION

[illegible]

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										1ST AND 2ND ORDERS																									
<p>CA</p> <p>Soil processes, their life, importance, and activities  LA 116 Telegty-Kovats. <i>Agrárstudományi Szemle</i> 1, 8 15  (1917).--General summary with 9 references. I. F.</p>																										<p>15</p>																									
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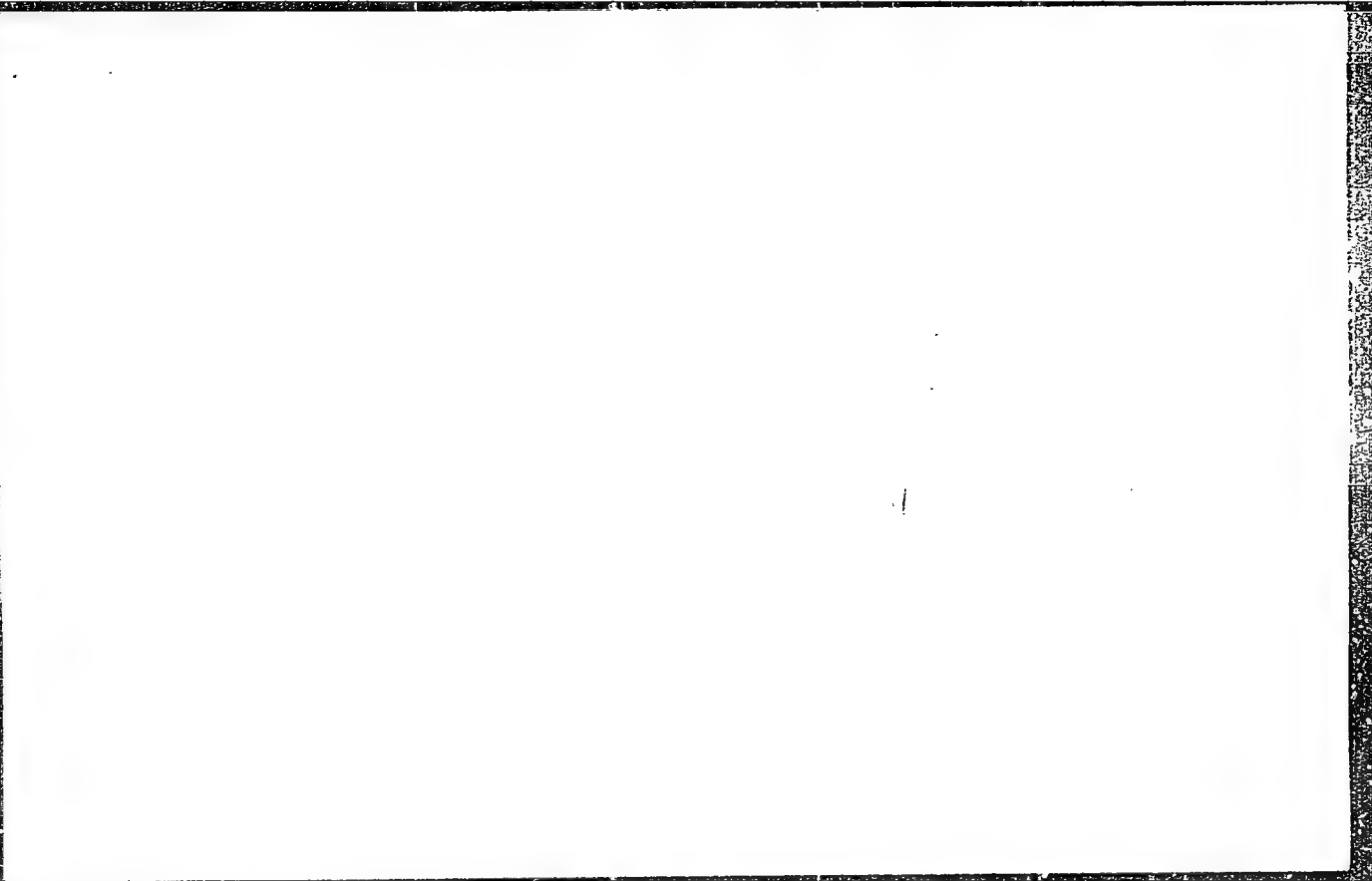
TELEGDI KOVACS, LASZLO.

Telegdi Kovacs, Laszlo. Élelmiszerismeret. Édesipari Készítmények. (Budapest)  
Nepszava. 37 p. (Kereskedelmi Szakkönyvtár) (Foodstuffs; Confectionery)

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Effects of certain additives used in the food industry on the activity of lipase. The effect of synthetic dyes on the activity of lipase was studied.

The use of synthetic dyes in the food industry is increasing rapidly. The effect of these dyes on the properties of lipase was pointed out as far back as 1935, however no investigations were undertaken to explain the effects of these substances. In the present experiments the change of surface tension in a solution of tributyrin saturated by the action of lipase was measured by stalagmometric methods to determine the lipase activity. The determinations were repeated five times and according to the experimental results the lipase activity was influenced in different ways by various approved dyestuffs. Flavazine R, Indigo carmine, Induline B, Naphthol yellow S, Nigrosine W, and Tartrazine O proved to have an activating effect whereas Brilliant green SP, Bordeaux R, Orange LRR, Rhodamine B, Tropaeolin 000 and Neococcine definitely inhibited the enzyme activity, and even total inactivation set in when Orange LRR was added. Generally the dyes which decrease the surface tension have an inhibitory effect on the enzyme activity whereas those which increase the surface tension have an activating influence. This phenomenon seems to verify that the surface tension decreases as a result of the accumulation of certain dyestuffs at the interface.

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1955-1956  
Vol. 1, No. 1, 1955

Most of the information in this document  
is classified as "Secret" or "Confidential".

See also: Vol. 1, No. 2, 1955  
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